canfield connector

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**SERIES 5000** 

SUB-MICRO SOLENOID VALVE CONNECTOR

## General Description

Canfield Connector's Series 5000 Sub-Micro connector is made to connect solenoid valves using the DIN 43650 Form "C", EN175301-803:2000 (8mm pin center) and the industry standard 9.4mm pin center. These standards permit industry interchangeability and have been embraced by the solenoid valve industry worldwide. Features include the ability for the user to wire the connector into existing installations or the connector can be prewired at the factory. Wire connections are made inside the connector housing. The wire inlet is either PG7 or 1/2" conduit. Maximum current rating is 6 amps with a maximum conductor size of 20 gauge with an outer jacket not to exceed .260 inches diameter. There are versions with indicator lights depicting the "on" state. The connectors are NEMA 4 and IP 65 environment rated.



### **Dimensional Data** -

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

# PG7, 8mm center PG7, 9.4mm center 16 37 37 PĠ7 PG7 П 25.5 25.5 29 - M2.5 - M3 1/2" Conduit, 9.4mm center 1/2" Conduit, 8mm center 16 1/2" NPTF 1/2" NPTF π 25.4 25.4 25.5 25.5 29.5 29.5 - M3 - M2.5

Wiring Information





z 🛮 🔘 🛭 u \_ Ground Up



Ground Right



Normal polarity: 1 = (+) Positive, High

2 = (-) Negative, Neutral

= Chassis Ground

<sup>\*</sup>Ground spade offset by 0.2mm toward pin 1.

- Technical Data ------ Derating Curve

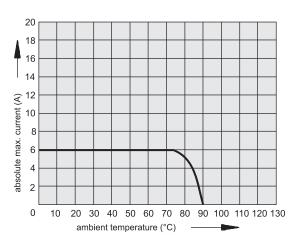
- The cable outlet can be assembled in 90° increments
- · Color: black, gray or translucent for lighted styles
- Cable diameter: PG7 .157 .236 inch O.D.
  - 1/2" Conduit 8mm & 9.4mm .250 inch max.
- Cross section of the conductor wire max.: 20 AWG
- Rated voltage max.: 250 VAC 50/60 Hz or VDC
- Maximum approved current: 6 Amps
- · No. of contacts: 2+ ground,

3+ ground (NOT available on lighted units)

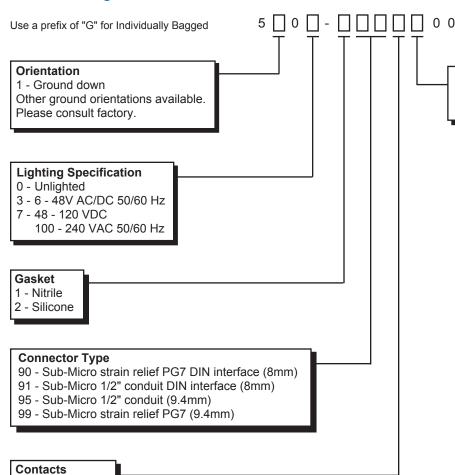
- Environmental protection: NEMA 4 and IP 65 dust tight and water resistant
- · Maximum rated temperatures for gaskets:

Nitrile gasket: -25° to +90°C Silicone gasket: -40° to +125° C

NOTE: When using MAC Valves with 9.4mm Sub-Micro, consult our factory.



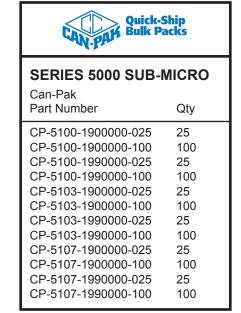
## **Ordering Information**



1 - Gray "A"

0 - Black "B" standard. Translucent if lighted.

**Housing Color** 



\*3+ ground *NOT* available in lighted version.

0 - 2 +ground 1 - 3 +ground\*

Each connector kit contains screw, washer and gasket assembly.



Consult factory for available versions listed by Canadian Standards Association for use with certified electrical equipment.

## **Ordering Example:**

5100-1900000

Ground down, unlighted, nitrile gasket, Sub-Micro strain relief PG7 DIN interface, 2+ ground contacts, black house